IDALY FERNANDEZ ESQUIVEL

Mechatronics Engineer

CONTACT

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EDUCATION

Mechatronics Degree
Instituto Tecnológico de Ciudad Juarez
Jun 2025

Admin Technician
Bachillerato Cbtis No. 128
2017 - 2020

CERTIFICATES

- Basics of Programming Oriented Objects - University of Michigan on **Coursera**
- Programming Foundations by Coursera - Duke University on **Coursera**
- Solidworks CSWA Associate - **Intelligy**

SOFT SKILLS

- Puntual & Responsible
- Team Player
- Adaptibility to Change
- Continuos Learning
- Initiative & Perseverance

LANGUAGE

- Inglés –
- Intermediate – Advanced B2

EXPERIENCE

Process Engineering Intern VS9 **August /2024 – July 2025**
Robert Bosch Zaragoza
As a manufacturing process intern, I developed interactive dashboards and led improvement initiatives to optimize plant operations or maintenance preventive.

- Designed and deployed KPI dashboards, downtime monitoring, and process control systems by using SQL to extract and transform data in Tableau, Power BI, Oracle, and MSSL.
- Developed Excel Macros to optimize tool tracking and email alerts for motors maintenance predictive.
- Performed preventive maintenance on pneumatic and mechanical systems and handled basic operation of Yamaha and Staubli SCARA robots.
- Supported corrective maintenance for stations equipped with visual systems, including Cognex IV Navigator, Keyence In-sight Explorer, and DataLogic scanners.
- Support to conducted downtime PDCA analysis, troubleshooting, and root cause investigation to optimize operational efficiency.

Process Engineering Intern **August/2023 - July/2024**
Valeo Telematica y Acustica.
As a SMD intern, I provided comprehensive support in manufacturing processes, design, continuos improvement, and SMT equipment setup.

- Designed layouts and modified Core Tools: PFMEA, PCP, PFD, WI, IS, AV.
- Led Failure Analysis Workshops, QRQC, and PDCA.
- Maintained and managed 5S, visual aids, Kaizen workshops, and process improvements.
- Performed setup and debugging of new programs with Gerber files in Laser Marking, Solder Paste Inspection, AOI, and Getech routers.

Reference: Manuel Valdez (APU Manager) 656 2973573

HARD SKILLS

- **Software & Programming:** SolidWorks (CSWA Certified), AutoCAD 2D, G-Code with CNC, C, C++, Python, MicroPython, Programming Oriented Objects.
- **Vision Systems:** Vision System Keyence CV-X series, Cognex IV Navigator, In-sight Explorer, Scaners DataLogic.
- **HMI Design & Programming:** LabVIEW, Visual Studio, FactoryTalk, Siemens TIA Portal, Studio 5000, RS Logix 500.
- **Electrical Control:** Connection of three-phase and single-phase motors (127, 220, 480V), Reading electrical diagrams, sensors (capacitive, inductive, reflective, proximity, laser, NPN/PNP, limit switch, analog, thermocouples, float sensors, etc.)
- **Industrial Automation:** PLC programming (RSLogix 500, Siemens, Studio 5000), robotic arm operation (6-axis KUKA, STAUBLI, MITSUBISHI teach pendant control), laser marker programming and debugging (NUTEK)
- **Instrumentation & Measurement:** Use of multimeter, vernier caliper, tension meter
- **Manufacturing & Process Improvement:** 5S, 5 Why, Kaizen, Lean Manufacturing, Just in Time
- **Core Tools:** Control Plan, APQP, PPAP, PFMEA, PCP, PFD, WI, AV.
- **Data & Analytics:** SQL, Power BI, Tableau, APIS software, Oracle, SSMS
- **Other:** Microsoft Office Suite, Minitab.

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